

Table 3-4

U.S. citizen and permanent resident research doctorate recipients, by major field of doctorate, ethnicity, and race: 2022

(Number and percent distribution)

Field of doctorate	All U.S. citizens and permanent residents (number)	Total	U.S. citizen or permanent resident							
			Hispanic or Latino	Not Hispanic or Latino					Other race or race not reported	Ethnicity not reported
				American Indian or Alaska Native	Asian	Black or African American	White	More than one race		
All fields	35,311	100.0	9.5	0.3	10.2	7.5	66.0	3.4	1.2	1.9
Science and engineering	26,801	100.0	9.4	0.2	11.3	6.0	66.4	3.6	1.2	1.8
Agricultural sciences and natural resources	770	100.0	9.4	0.5	6.2	4.8	73.1	2.2	1.3	2.5
Agricultural, animal, plant, and veterinary sciences	458	100.0	8.3	0.4	7.2	5.5	72.9	2.4	1.1	2.2
Natural resources and conservation	312	100.0	10.9	0.6	4.8	3.8	73.4	1.9	1.6	2.9
Biological and biomedical sciences	6,745	100.0	10.8	0.1	12.3	4.8	65.9	4.1	0.9	1.1
Biochemistry, biophysics, and molecular biology	1,022	100.0	11.2	0.2	14.2	3.8	65.7	2.9	1.2	0.9
Bioinformatics, biostatistics, and computational biology	364	100.0	5.8	0.0	25.0	3.6	59.3	4.1	1.1	1.1
Cell/ cellular biology and anatomy	506	100.0	12.5	0.2	12.3	4.3	65.6	4.3	0.2	0.6
Ecology, evolutionary biology, and epidemiology	890	100.0	9.2	0.2	7.1	6.5	71.3	4.4	0.7	0.6
Genetics and genomics	335	100.0	11.0	0.0	10.1	3.6	70.7	1.8	1.8	0.9
Microbiology and immunology	887	100.0	11.3	0.0	12.6	4.6	66.0	3.8	0.6	1.1
Neurobiology and neurosciences	924	100.0	12.6	0.1	14.0	3.9	63.4	4.3	0.6	1.1
Pharmacology and toxicology	285	100.0	10.9	0.0	11.6	10.5	60.7	4.9	1.1	0.4
Physiology, oncology, and cancer biology	545	100.0	11.9	0.4	11.9	4.8	65.1	4.6	0.7	0.6
Biological and biomedical sciences, other	987	100.0	10.0	0.1	9.8	4.5	66.1	5.0	1.7	2.8
Computer and information sciences	774	100.0	5.6	0.1	19.8	5.4	61.1	3.2	2.3	2.5
Computer science	539	100.0	5.0	0.2	19.1	3.3	63.3	4.1	3.0	2.0
Computer and information sciences, other	235	100.0	6.8	0.0	21.3	10.2	56.2	1.3	0.9	3.4
Engineering	4,436	100.0	8.2	0.1	15.3	4.2	64.8	3.8	1.2	2.5
Biological, biomedical, and biosystems engineering	842	100.0	9.4	0.0	20.5	3.1	59.7	4.4	1.3	1.5
Chemical and petroleum engineering	569	100.0	5.8	0.4	16.2	3.3	67.1	4.9	0.4	1.9
Civil, environmental, and transportation engineering	436	100.0	8.0	0.0	11.5	7.8	65.4	3.2	1.4	2.8
Electrical and computer engineering	552	100.0	8.2	0.2	18.3	6.3	60.5	2.5	1.3	2.7

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Engineering technologies	102	100.0	5.9	0.0	23.5	5.9	56.9	2.9	1.0	3.9
Industrial engineering and operations research	220	100.0	5.5	0.0	12.7	8.6	65.5	2.7	2.7	2.3
Materials and mining engineering	443	100.0	7.9	0.2	14.9	3.4	67.3	3.6	0.9	1.8
Mechanical engineering	644	100.0	10.2	0.0	13.0	2.2	67.1	3.4	1.4	2.6
Engineering, other	628	100.0	8.1	0.2	9.4	3.0	69.9	4.5	1.0	4.0
Geosciences, atmospheric, and ocean sciences	727	100.0	8.3	0.0	6.3	2.3	78.3	3.0	0.4	1.4
Geological and earth sciences	385	100.0	7.5	0.0	5.7	2.6	80.0	2.9	0.3	1.0
Ocean, marine, and atmospheric sciences	342	100.0	9.1	0.0	7.0	2.0	76.3	3.2	0.6	1.8
Health sciences	1,973	100.0	7.9	0.2	9.7	13.8	63.4	2.5	0.8	1.7
Nursing and nursing science	512	100.0	7.4	0.2	8.2	13.5	65.6	2.3	1.0	1.8
Pharmacy and pharmaceutical sciences	192	100.0	7.8	0.0	17.2	5.2	66.7	0.5	0.5	2.1
Public health	586	100.0	8.7	0.5	10.4	21.2	54.8	2.9	0.7	0.9
Health sciences, other	683	100.0	7.6	0.0	8.2	10.1	68.1	2.9	0.7	2.3
Mathematics and statistics	966	100.0	6.1	0.2	12.5	2.7	68.4	5.2	1.7	3.2
Applied mathematics	210	100.0	6.2	0.0	12.9	3.8	68.6	5.2	1.4	1.9
Mathematics	553	100.0	6.3	0.2	9.2	0.9	71.6	5.4	1.8	4.5
Statistics	203	100.0	5.4	0.5	21.2	6.4	59.6	4.4	1.5	1.0
Multidisciplinary/interdisciplinary sciences	816	100.0	10.0	0.1	13.7	5.1	62.9	3.4	3.2	1.5
Interdisciplinary computer sciences	236	100.0	8.5	0.0	21.2	3.0	58.1	4.2	4.2	0.8
Multidisciplinary/interdisciplinary sciences, other	580	100.0	10.7	0.2	10.7	6.0	64.8	3.1	2.8	1.7
Physical sciences	3,108	100.0	8.3	0.2	10.2	2.6	72.1	3.4	1.2	2.0
Astronomy and astrophysics	204	100.0	11.3	0.5	6.9	4.9	71.1	2.9	1.0	1.5
Chemistry	1,665	100.0	7.7	0.1	10.3	2.9	72.1	3.4	1.1	2.4
Materials sciences	193	100.0	14.0	0.5	11.4	3.1	64.8	4.1	1.6	0.5
Physics	1,046	100.0	7.6	0.2	10.5	1.6	73.6	3.4	1.2	1.8
Psychology	3,295	100.0	11.4	0.3	7.1	8.7	65.3	3.6	1.3	2.2
Clinical psychology	1,029	100.0	11.0	0.5	7.0	5.4	68.8	3.6	1.1	2.6
Counseling and applied psychology	1,226	100.0	11.3	0.2	6.6	12.2	63.3	3.5	1.6	1.3

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Research and experimental psychology	701	100.0	11.4	0.3	8.8	6.1	66.9	3.6	0.7	2.1
Psychology, other	339	100.0	13.0	0.3	5.3	11.5	59.0	4.1	2.4	4.4
Social sciences	3,191	100.0	10.5	0.5	9.1	9.2	64.6	3.5	1.2	1.3
Anthropology	329	100.0	9.7	0.9	7.6	4.0	67.8	6.7	1.5	1.8
Area, ethnic, cultural, gender, and group studies	331	100.0	17.2	2.4	9.1	15.7	48.0	5.7	1.2	0.6
Economics	515	100.0	6.0	0.0	16.7	4.1	67.2	2.3	1.2	2.5
Political science and government	465	100.0	9.7	0.0	6.7	3.4	73.5	2.8	2.6	1.3
Public policy analysis	325	100.0	10.5	0.3	9.5	23.4	50.5	4.3	1.2	0.3
Sociology, demography, and population studies	496	100.0	13.5	0.0	6.9	11.9	63.3	3.4	0.4	0.6
Social sciences, other	730	100.0	9.5	0.7	7.3	7.9	70.3	2.2	0.8	1.4
Non-science and engineering	8,510	100.0	9.7	0.5	6.6	12.2	64.9	2.8	1.2	2.2
Business	651	100.0	7.1	0.5	16.9	13.2	56.1	2.0	2.3	2.0
Business administration and management	211	100.0	4.7	0.0	14.7	18.0	53.6	1.9	3.3	3.8
Business, other	440	100.0	8.2	0.7	18.0	10.9	57.3	2.0	1.8	1.1
Education	3,205	100.0	10.6	0.7	5.0	18.1	60.3	2.5	0.8	2.0
Education leadership and administration	1,050	100.0	11.2	0.9	4.2	23.8	54.9	1.9	0.5	2.7
Education research	924	100.0	9.8	0.4	4.2	18.2	61.0	3.1	1.0	2.2
Teacher education	863	100.0	8.8	0.9	6.3	11.7	68.4	1.9	1.0	1.0
Education, other	368	100.0	14.7	0.3	6.5	16.8	54.9	4.1	0.8	1.9
Humanities	2,634	100.0	10.2	0.2	4.8	5.4	72.5	3.0	1.3	2.8
English language and literature, letters	910	100.0	7.6	0.2	4.7	5.5	75.6	3.3	1.0	2.1
Foreign languages, literatures, and linguistics	332	100.0	26.5	0.3	4.5	3.0	57.5	2.7	0.6	4.8
History	593	100.0	9.1	0.2	3.5	6.6	74.5	3.4	1.0	1.7
Philosophy and religious studies	511	100.0	7.0	0.0	5.3	5.5	74.0	2.7	1.8	3.7
Humanities, other	288	100.0	7.3	0.0	6.9	5.6	72.9	1.7	2.4	3.1
Visual and performing arts	619	100.0	9.4	0.5	8.9	5.0	69.6	3.2	1.5	1.9
Performing arts	354	100.0	9.3	0.3	5.1	6.8	72.0	4.0	0.6	2.0
Visual arts, media studies, and design	265	100.0	9.4	0.8	14.0	2.6	66.4	2.3	2.6	1.9
Other non-science and engineering	1,401	100.0	8.1	0.6	8.1	14.1	63.0	3.3	1.4	1.5
Communications and journalism	386	100.0	7.3	0.5	7.5	7.5	71.5	2.6	2.1	1.0

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Multidisciplinary/interdisciplinary studies	291	100.0	6.2	0.3	5.5	10.3	72.2	3.4	1.0	1.0	
Public administration and social services	338	100.0	10.1	1.2	8.3	24.3	49.4	4.1	1.2	1.5	
Non-science and engineering, other	386	100.0	8.8	0.3	10.4	14.8	59.3	3.1	1.0	2.3	

Note(s):

Due to rounding, percentages may not sum to 100. Beginning in 2021, a modified version of the 2020 Classification of Instructional Programs (CIP) codes was used in the survey data collection, and new broad, major, and detailed fields are used in tables reporting data from 2021 to the present; see the field list in table A-4. Therefore, the field of doctorate data prior to 2021 may not be comparable to subsequent years. For more information, see the "Technical Notes" and the SED 2021 Taxonomy Changes Working Paper (available at <https://nces.nsf.gov/pubs/nces23200>).

Source(s):

National Center for Science and Engineering Statistics, Survey of Earned Doctorates.